

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/612,661DATE: 06/22/96
TIME: 13:24:28

INPUT SET: S11218.raw

This Raw Listing contains the General
Information Section and those Sequences
containing ERRORS.

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SEQUENCE LISTING

(1) General Information:

(i) APPLICANT: Christensen, Leif
Frydenlund Hansen, Henrik
Nielsen, Peter E

(ii) TITLE OF INVENTION: Substituted Nucleic Acid Mimics

(iii) NUMBER OF SEQUENCES: 10

(iv) CORRESPONDENCE ADDRESS:
(A) ADDRESSEE: Woodcock Washburn et al.
(B) STREET: One Liberty Place 46th. Floor
(C) CITY: Philadelphia
(D) STATE: PA
(E) COUNTRY: USA
(F) ZIP: 19103

(v) COMPUTER READABLE FORM:
(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: PatentIn Release #1.0, Version #1.30

(vi) CURRENT APPLICATION DATA:
(A) APPLICATION NUMBER: US 08/612,661
(B) FILING DATE: 08-MAR-1996
(C) CLASSIFICATION:

(viii) ATTORNEY/AGENT INFORMATION:
(A) NAME: Caldwell, John W
(B) REGISTRATION NUMBER: 28,937
(C) REFERENCE/DOCKET NUMBER: ISIS-2169

(ix) TELECOMMUNICATION INFORMATION:
(A) TELEPHONE: 215-568-3100
(B) TELEFAX: 215-568-3439

Does Not Comply
Corrected Diskette Needed

See
notes
on
attached
pages →

ERRORED SEQUENCES FOLLOW:

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/612,661DATE: 06/22/96
TIME: 13:24:31

INPUT SET: S11218.raw

61 (2) INFORMATION FOR SEQ ID NO:2:

62

63 (i) SEQUENCE CHARACTERISTICS:

64 (A) LENGTH: 17 amino acids

65 (B) TYPE: amino acid

66 (C) STRANDEDNESS: single

67 (D) TOPOLOGY: linear

68

69 (ii) MOLECULE TYPE: DNA (genomic)

70

71 (iii) HYPOTHETICAL: NO

72

73 (iv) ANTI-SENSE: YES

74

75 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

76

77 GAGAGGAAAA

78

79

80

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81 (2) INFORMATION FOR SEQ ID NO:3:

82

83 (i) SEQUENCE CHARACTERISTICS:

84 (A) LENGTH: 10 base pairs

85 (B) TYPE: PNA

86 (C) STRANDEDNESS: single

87 (D) TOPOLOGY: linear

88

89 (ii) MOLECULE TYPE: PNA

90

91 (iii) HYPOTHETICAL: NO

92

93 (iv) ANTI-SENSE: YES

94

95 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

96

97 TTTTCCTCTC

98

99

100

101

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102 (2) INFORMATION FOR SEQ ID NO:4:

103

104 (i) SEQUENCE CHARACTERISTICS:

105 (A) LENGTH: 10 base pairs

106 (B) TYPE: PNA

107 (C) STRANDEDNESS: single

108 (D) TOPOLOGY: linear

109

110 (ii) MOLECULE TYPE: PNA

111

nucleic acid

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/612,661DATE: 06/22/96
TIME: 13:24:35

INPUT SET: S11218.raw

112 (iii) HYPOTHETICAL: NO
113
114 (iv) ANTI-SENSE: YES
115
116 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
117
118
--> 119 TTTTCNTCTC 10
120
121
122

123 (2) INFORMATION FOR SEQ ID NO:5:
124
125 (i) SEQUENCE CHARACTERISTICS:
--> 126 (A) LENGTH: 10 base pairs
--> 127 (B) TYPE: PNA
128 (C) STRANDEDNESS: single
129 (D) TOPOLOGY: linear
130
131 (ii) MOLECULE TYPE: PNA
132
133 (iii) HYPOTHETICAL: NO
134
135 (iv) ANTI-SENSE: YES
136
137 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
138
139
--> 140 TTTTCNTNTC 10
141
142
143

144 (2) INFORMATION FOR SEQ ID NO:6:
145
146 (i) SEQUENCE CHARACTERISTICS:
--> 147 (A) LENGTH: 10 base pairs
--> 148 (B) TYPE: PNA
149 (C) STRANDEDNESS: single
150 (D) TOPOLOGY: linear
151
152 (ii) MOLECULE TYPE: PNA
153
154 (iii) HYPOTHETICAL: NO
155
156 (iv) ANTI-SENSE: YES
157
158 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
159
--> 160 TTTTNNCTCTC 10
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162

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/612,661DATE: 06/22/96
TIME: 13:24:38

INPUT SET: S11218.raw

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205 (2) INFORMATION FOR SEQ ID NO:9:

206

207 (i) SEQUENCE CHARACTERISTICS:

208 (A) LENGTH: 10 base pairs

--> 209 (B) TYPE: PNA

210 (C) STRANDEDNESS: single

211 (D) TOPOLOGY: linear

212

213 (ii) MOLECULE TYPE: PNA

214

215 (iii) HYPOTHETICAL: NO

216

217 (iv) ANTI-SENSE: YES

218

219 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

220

221 AGTCACCTAC

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225 (2) INFORMATION FOR SEQ ID NO:10:

226

227 (i) SEQUENCE CHARACTERISTICS:

228 (A) LENGTH: 10 base pairs

--> 229 (B) TYPE: PNA

230 (C) STRANDEDNESS: single

231 (D) TOPOLOGY: linear

232

233 (ii) MOLECULE TYPE: PNA

234

235 (iii) HYPOTHETICAL: NO

236

237 (iv) ANTI-SENSE: YES

238

239 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

240

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242 AGTCANCTAC

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SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/08/612,661DATE: 06/22/96
TIME: 13:24:41**INPUT SET: S11218.raw**

| Line | Error | Original Text | |
|------|---|----------------------------|----|
| 64 | Entered (17) and Calc. Seq. Length (0) differ | (A) LENGTH: 17 amino acids | |
| 77 | Wrong Amino Acid Designator | GAGAGGAAAA | 10 |
| 84 | Entered (10) and Calc. Seq. Length (0) differ | (A) LENGTH: 10 base pairs | |
| 85 | Wrong or Missing Sequence Type | (B) TYPE: PNA | |
| 97 | Wrong Amino Acid Designator | TTTTCCTCTC | 10 |
| 105 | Entered (10) and Calc. Seq. Length (0) differ | (A) LENGTH: 10 base pairs | |
| 106 | Wrong or Missing Sequence Type | (B) TYPE: PNA | |
| 119 | Wrong Amino Acid Designator | TTTTCNTCTC | 10 |
| 126 | Entered (10) and Calc. Seq. Length (0) differ | (A) LENGTH: 10 base pairs | |
| 127 | Wrong or Missing Sequence Type | (B) TYPE: PNA | |
| 140 | Wrong Amino Acid Designator | TTTTCNTNTC | 10 |
| 147 | Entered (10) and Calc. Seq. Length (0) differ | (A) LENGTH: 10 base pairs | |
| 148 | Wrong or Missing Sequence Type | (B) TYPE: PNA | |
| 160 | Wrong Amino Acid Designator | TTTTNNTCTC | 10 |
| 209 | Wrong or Missing Sequence Type | (B) TYPE: PNA | |
| 229 | Wrong or Missing Sequence Type | (B) TYPE: PNA | |

08/6/2661

Notice of Availability

Applicant Aid for Biotechnology Computer Readable Form (CRF) Sequence Listings Submissions

The Patent and Trademark Office (PTO) has developed a computer program, called Checker, that will aid applicants in identifying and correcting errors prior to making submissions for compliance with the Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Sequence Disclosures (sequence rules: 37 CFR 1.821 through 1.825). (Final rules were published in the *Federal Register* (55 FR 18230) on May 1, 1990, and in the *PTO Official Gazette* (1114 Off.Gaz.PatOffice 29) on May 15, 1990.)

Checker is a DOS-based software program that is intended to assist users in determining whether errors may be present in the sequence listings, and is not intended to guarantee that the submission is error-free.

The most current version of the software will be available via computer downloading (details below). Copies on diskette are also available. Updated software versions will not be automatically mailed out; any updates will be announced in the *PTO Official Gazette*.

The software can be accessed/requested in the following locations:

- 1) Dial-up access to the Patent and Trademark Office Bulletin Board System.
Phone number: 703-305-8950
Cost: Free-of-charge
- 2) Dial-up access through the Internet. FTP site: ftp.uspto.gov
Login as "anonymous". Software is in directory /pub/checker
Cost: Free-of-charge
- 3) For diskette copies, telephone requests to 703-306-2600.
Cost: \$25.00

For Further Information Contact: Meredith Beckhardt at 703-308-4212.